

Mars Exploration Program
Mars Scout 2006 and Missions of Opportunity
Kick-off Meeting
Phase A; Concept Study

January 25, 2007

Changes made since the meeting are
highlighted in this color

Michael Meyer

Lead Scientist

Mars Exploration Program



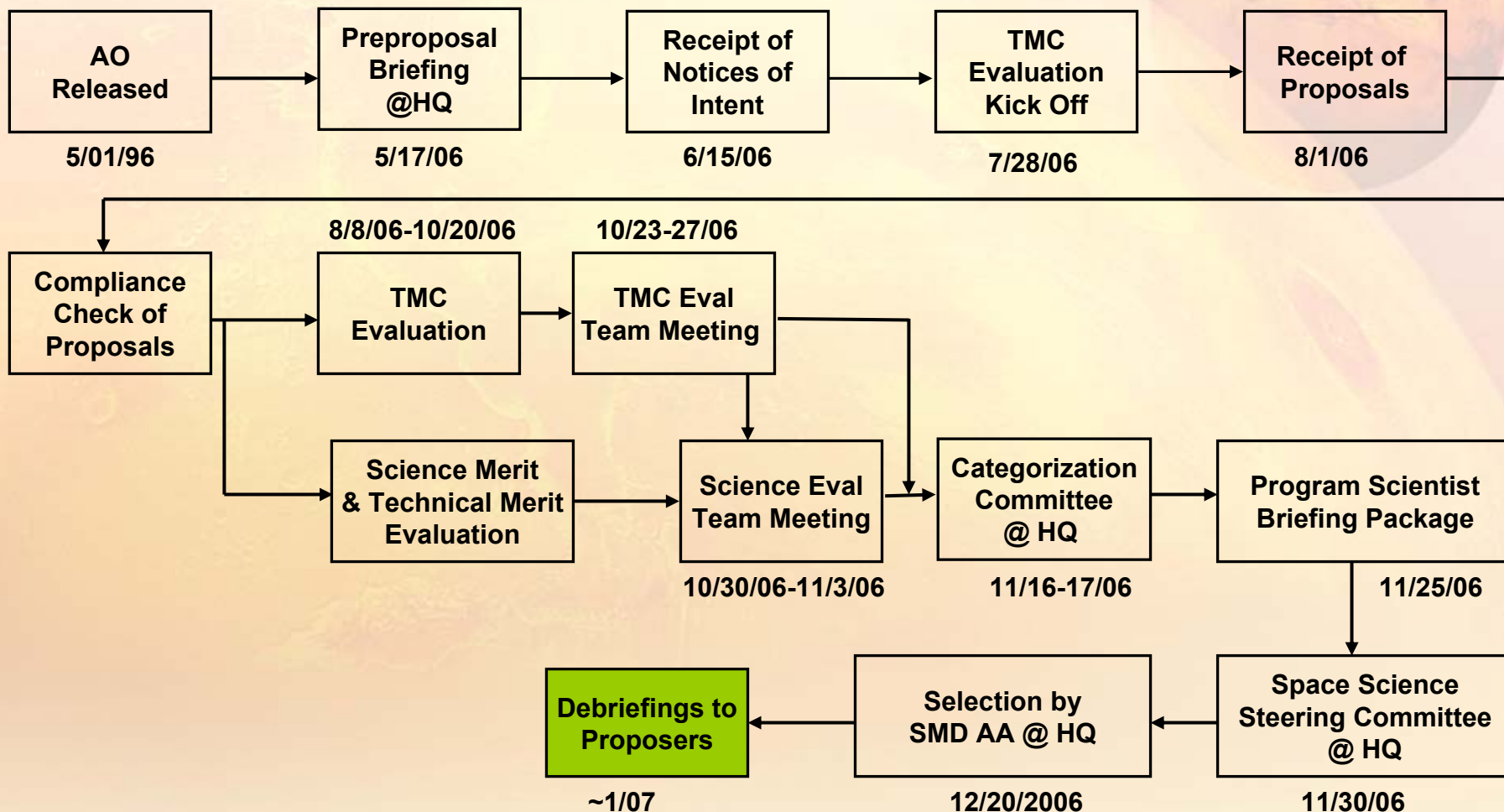


CONGRATULATIONS!

- Good News – You Won!
 - NASA selected only two Mars Scout Mission investigations, each of which will be awarded funding of \$2M FY 2006 to conduct Phase A Concept Studies lasting up to nine months.
- Bad News – You Won!
 - Only one Mars Scout mission investigation will proceed to Phase B
 - Deliver on what you promise
- 1/10 mission proposals selected / proposals submitted
 - ~ 3/4 of the proposals were Very Good or above for Science Merit
 - ~ 2/3 of the proposals were Very Good or above for Science Feasibility
 - ~ 1/2 of the proposals Medium or Low Risk for implementation



Mars Scout Proposal Evaluation Process





Timeline

October 2011	Launch window opens
October 2008	Start Phase C/D (notional)
September 2008	Confirmation process (notional)
January 2008	Start Phase B
January 2008	Downselect to one mission
Nov/Dec 2007	CSR evaluation & site visits
October 19, 2007	Deliver Concept Study Reports
January 19, 2007	Funding for Phase A



Concept Study Overview

- Mission Investigations Concept Study Reports (CSRs) are due on October 19, 2007
- Joel Levine, Mars Scout Program Scientist, will be the overall Chair of the Evaluation Team.
- Carlos Liceaga / Gloria Hernandez, Mars Scout Acquisition Manager will lead the TMC evaluation.
- Lisa May will oversee the management and operations of the Phase A process
- Peter Doms, JPL, is representing MEP Program Office and facilitates funding through Phase A and bridge to Phase B.
- Final reports must be delivered to NRESS on due date 4:00PM EDT.
 - Signed original and 50 copies
 - No late changes or errata sheets will be accepted.
 - NRESS address and contact information is in the Mars Scout Criteria and Guidelines for the Phase A Concept Study.
- CSR evaluation and Site Visits will be discussed by Carlos Liceaga.



Relevant Documents

- Mars Scout Program Acquisition Page:
 - <http://mars-scout.larc.nasa.gov/>
 - Criteria and Guidelines for the Phase A Concept Study.
 - Phase A Concept Study Information
 - Questions and Answers
 - Other Communications



Concept Study Report Content

- Selections were primarily based on Science Merit balanced by feasibility
 - Unless directed or Concept Study results demand it, Science should not change.
 - Science section from Proposal **MUST** be repeated in the Concept Study Report.
 - Any and all changes must be highlighted
 - Unless the Science has changed, the Phase A Evaluation will emphasize implementation.
- Implementation: Feasibility of the Proposed Approach for Mission Implementation Including Cost Risk.
 - Details of instrument strategy, sensitivities, and implementation required.
 - Block diagrams, instrument, and observation table should be updated with design details.
 - Details of data management are also required including analysis, archiving, publication, and release to public.



Evaluation Criteria

- Evaluation Criteria for Concept Study:
 - Scientific Merit of the Proposed Investigation: Not reevaluated unless there is a change made or issues were identified in Step 1 evaluation.
 - Scientific Implementation Merit and Feasibility:
 - *The scientific implementation of the investigation will be reevaluated from the data provided in the CSR and the site visit to look specifically at the level of implementation risk based on the feasibility of the investigation's technical approach, instrumentation provided to acquire the data, maturity of the Level 1 science requirements, plans for science operations and data acquisition, plans for science descope, technical capabilities of the investigation team, and the plans for data analysis and archiving.*
 - Feasibility of the Proposed Approach for Mission Implementation Including cost Risk: Per Concept Study Guidelines and as discussed in the TMC section of Briefing.



Concept Study Overview

- Additional selection factors include:
 - The NASA MEP cost;
 - The quality of plans for education and public outreach (E/PO): Per Concept Study Guidelines and as discussed in the E/PO section of Briefing;
 - The merit of any SC, SEO, TDO.



Evaluation Criteria Weighting

- The evaluation criteria with their approximate percentage weights are as follows:

	Selection	Downselect
The scientific merit of the proposed investigation;	40%	25%
The scientific implementation merit and feasibility of the proposed investigation; and	30%	25%
The feasibility of the proposed approach for mission/MoO implementation, including cost risk (i.e., realism and reasonableness of cost).	30%	50%

- Additional selection factors include the MEP Cost as well as the merit of the EPO plan (including SC merit), SEO merit, and TDO merit.



Competition Conditions

- “Blackout” after the Kickoff Meeting.
 - Communications after this meeting will be controlled.
 - Technical and expert advice should be obtained directly from identified Points of Contact (POC’s) with copies of the questions sent to the PE & PS. See next page for list of POCs
 - All Questions & Answers will be reviewed by the PS and PE for clarification.
 - All programmatic questions, including questions of policy, questions of interpretation, and questions of clarification, should come to HQ/Joel Levine
 - Answers as applicable will be provided via the Mars Scout Phase A Study page and emailed to PIs.
 - Site visit details will be coordinated with LaRC/Carlos Liceaga / Gloria Hernandez.



Points of Contact

- Programmatic, Policy, Clarification questions

Joel Levine

joel.s.levine@nasa.gov

757.864.5692

and

Lisa May

lisa.may@nasa.gov

202.358.2411

- ELV Requirements

Norm Beck

norman.m.beck@nasa.gov

321-867-6348

- DSN Planning and Costs

Andrew Kwok

andrew.kwok@jpl.nasa.gov

818-354-5555



Points of Contact (continued)

- E/PO Requirements
Marilyn Lindstrom
marilyn.lindstrom-1@nasa.gov
202.358.1254
- Planetary Protection Requirements
Cassie Conley
catherine.a.conley@nasa.gov
202-358-3912
- PDS Archiving Requirements
Ed Grayzeck
grayzeck@mail630.gsfc.nasa.gov
301-286-7355
- Site Visit Planning
Carlos Liceaga / Gloria Hernandez
carlos.a.liceaga@nasa.gov
757.864.6191

